

---

**Rapid mRNA-Display Selection of an IL-6 Inhibitor Using Continuous-Flow Magnetic Separation.**

**Journal:** Angew Chem Int Ed Engl

**Publication Year:** 2011

**Authors:** C A Olson, J D Adams, T T Takahashi, H Qi, S M Howell, T T Wu, R W Roberts, R Sun, H T Soh

**PubMed link:** 21761516

**Funding Grants:** UCSB Stem Cell Biology Training Program

**Public Summary:**

Since the invention of hybridoma technology, methods for generating affinity reagents that bind specific target molecules have revolutionized biology and medicine. In the postgenomic era, there is a pressing need to accelerate the pace of ligand discovery to elucidate the functions of a rapidly growing number of newly characterized molecules and their modified states. Nonimmunoglobulin-based proteins such as DARPins, affibodies, and monobodies represent attractive alternatives to traditional antibodies as these are small, soluble, disulfide-free, single-domain scaffolds that can be selected from combinatorial libraries and expressed in bacteria. We report herein a rapid, low-cost, highly efficient method for generating high-affinity antibody mimetics using small-scale, continuous-flow magnetic separation (CFMS).

**Scientific Abstract:**

---

**Source URL:** <https://www.cirm.ca.gov/about-cirm/publications/rapid-mrna-display-selection-il-6-inhibitor-using-continuous-flow-magnetic>